No.QT32-11002

MYCOM

MNC-100E

[Compact type one axis controller]

【User's manual】

MYCOM,INC.

Changing history of user's manual

Changes	Date of change	Description of change	Changed by

Attention on Safety

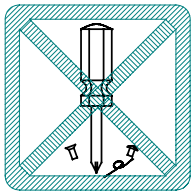
Please read this user's manual carefully before using this device.

Warning

Please keep the followings and use safely to avoid a fatal accident.

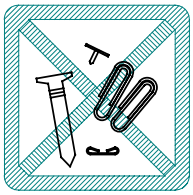
● **Do not use or leave it unattended after disassembling or damaging this unit.**

The above might cause an electrical shock or an accident. We will not be responsible for repair if the unit is disassembled by the customer.



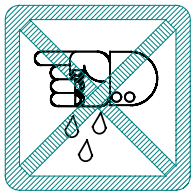
● **Avoid having metals and other foreign objects enter into the device.**

The above might cause fire, electric shock or accidents.



● **Do not touch the unit with wet hand.**

The above might cause electric shock or accidents.



Attention on safety

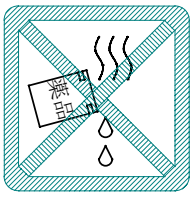
Please read this user's manual carefully before using this unit.

Attention

Please keep the followings and use safely to avoid an accident.

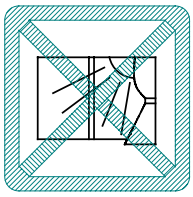
- **Do not use or store the unit near by corrosive gas, watery or chemical place.**

  It may cause fire, electric shock or accident.



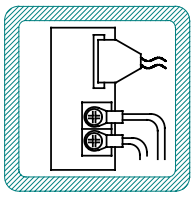
- **Do not use or store this unit in a place of direct rays of the sun.**

  It may cause an accident.



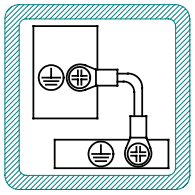
- **Confirm the input voltage and wiring before power on.**

  Wrong wiring or input voltage may cause fire or accident.



- **Earth**

  Earth (D class earth) or connect with protective earth in case of the product having protective earth terminal to avoid electric shock.



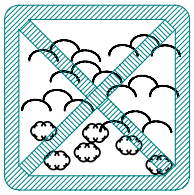
Attention on usage

Please read this user's manual before using this device.

Attention

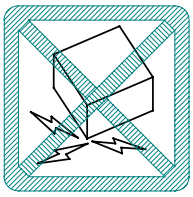
Please keep the following and use safely to avoid an accident.

● **Do not use or store this device in a dusty place.**



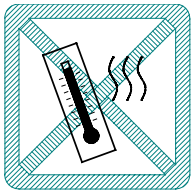
This device is not constructed dustproof. Operating in dusty place causes the accident.

● **Do not give the device a big shock.**



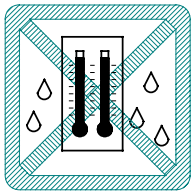
This is a precision device and it should not be dropped or given a big shock. It causes the accident.

● **Do not use or store it in a place where the temperature might rise too high or too low.**



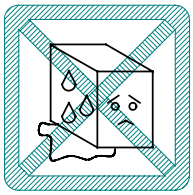
The operating temperature is 0°~40°C and the storage temperature is 0°~60°C.
Avoid extreme temperature changes.

● **Do not use or store it in a place where the humidity might rise too high or too low.**



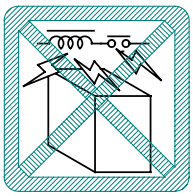
The operating humidity should be within 30% - 80%. The storage humidity should be within 20% - 90%.

● **Avoid condensation of dews.**



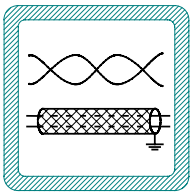
Bringing the device into a place of high humidity or a place where temperature changes suddenly will cause condensation of dews.

● **Take measures against noises. Noises will cause malfunctions and accidents.**

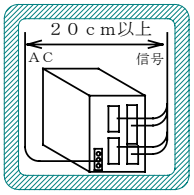


Use the power supply which is not connected to a noise generating device.

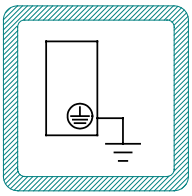
● Use shielded wires for wiring. Make them as short as possible. Use the twisted pair wires for the clock outputs.



● In case of AC type products, separate power cable (AC) from signal line (DC) more than 20cm.



● Earth if the products have earth terminal.



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1. Foreword

Thank you using our MNC-100E, Compact type one axis controller, this time.
Please read this manual thoroughly in prior to using this unit and operate this unit correctly.

1-1. Checking contents of package

MNC-100 includes the following items. Please check that all of them are included in the package. We are carefully packaging the products but please contact us or our agencies if some accessories are missing or damaged.

- Main unit, MNC-100 x 1
- Fixture, MNC-100-F x 1 set (2 pieces)
- Connecting tool, 233-332 x 1 (WAGO brand)
- Housing (for CN2) x 1 set. See Page 4.
- Housing (for CN3) x 1 set. See Page 4
- User's manual x 1

MNC-100J	Japanese display type
MNC-100E	English display type

1-2. Setting of LCD displayable language

LCD displayable language of MNC-100 is set as English display type at factory default. When you require to change into Japanese display type, please power DC+24V on pushing ENT and ▲ buttons of MNC-100 main body at same time. MNC-100 displays to select displayable language setting. Please select displayable language(Japanese or English) by pushing ▲ ▼ buttons. Then please push ENT button.
When MNC-100 enters into displayable language setting, the LCD displays as follows.

(In case of English selecting)

```
Ｓｅｌｅｃｔ　Ｌａｎｇｕａｇｅ
ｴｲｺﾞ　：　Ｅｎｇｌｉｓｈ
```

(In case of Japanese selecting)

```
Ｓｅｌｅｃｔ　Ｌａｎｇｕａｇｅ
ﾆﾎﾝｺﾞ：　Ｊａｐａｎｅｓｅ
```

2. Specification

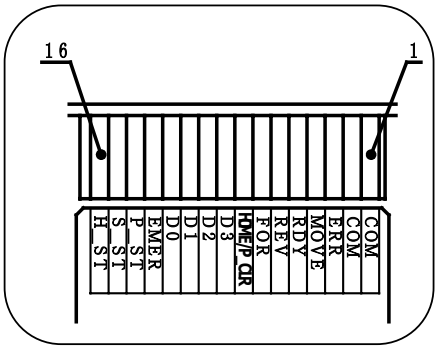
The specification of MNC-100 is shown below.

<table>
<tr><th>Items</th><th colspan="6">Description</th></tr>
<tr><td>Control system</td><td colspan="6">Microprocessor control system (Z80 compatible)</td></tr>
<tr><td>Number of axes controlled</td><td colspan="6">One axis</td></tr>
<tr><td>Control Motor</td><td colspan="6">Stepping motor</td></tr>
<tr><td>Program capacity</td><td>Position data</td><td colspan="5">15 positions
(Position storing at Serial EEP-ROM, writing times 10^5)</td></tr>
<tr><td>Acceleration deceleration system</td><td colspan="6">Trapezoidal or triangle</td></tr>
<tr><td>Command system</td><td colspan="6">Key input, Remote start signal (Sequential start / Specific position start)</td></tr>
<tr><td>Moving distance command system</td><td colspan="6">Absolute and incremental by specification</td></tr>
<tr><td>Remote function</td><td colspan="6">Home search, Scanning, Position data moving, Emergency stop, Current position clear</td></tr>
<tr><td>Panel control</td><td colspan="6">Home search, Current position clear, Scanning, Index moving, Position data moving, Position data editing, Position data storing, Speed setting.</td></tr>
<tr><td>Start speed and maximum speed</td><td colspan="6">1 to 65,535 Hz.</td></tr>
<tr><td>Acceleration deceleration speed</td><td colspan="6">1 to 1,900 Hz./msec.</td></tr>
<tr><td>Setting range of Moving distance</td><td colspan="6">Available moving range setting (0 to ± 8000000)</td></tr>
<tr><td>Setting range of a moving command</td><td colspan="6">0 to ±8000000</td></tr>
<tr><td>Driver I/F</td><td colspan="4">Output for clock (Open collector)</td><td colspan="2">1 clock / 2 clocks</td></tr>
<tr><td>Mechanical sensor I/F</td><td colspan="6">Both ends over-run, Home</td></tr>
<tr><td rowspan="2">Exclusive I/O</td><td>Input</td><td>8 points</td><td colspan="4">Photo coupler isolated
5mA internal power source (+24V) used
External start signal (H_ST, S_ST, P_ST)
Emergency stop signal (EMER)
Specific position signal (D0 to D3)</td></tr>
<tr><td>Output</td><td>3 points</td><td colspan="4">Photo coupler isolated
Open collector output, 13mA, Less than dielectric strength 35V
Error output(ERR), Ready output(RDY), moving output(MOVE)</td></tr>
<tr><td>Display</td><td colspan="6">LCD showing, 16 characters x 2 lines</td></tr>
<tr><td>Parameter function</td><td colspan="6">Systems setting, Data clear</td></tr>
<tr><td>Input power</td><td colspan="6">DC+24V±10%, Less than 0.15A</td></tr>
<tr><td rowspan="2">Environment (without condensation)</td><td colspan="2">Operating</td><td rowspan="2">Temperature</td><td>0 to 45 "C</td><td rowspan="2">Humidity</td><td>30 - 80%</td></tr>
<tr><td colspan="2">Storing</td><td>0 to 60 "C</td><td>20 - 90%</td></tr>
<tr><td>Dimension</td><td colspan="6">101(W) x 98(D) x 40.6(H)mm (excluding protuberance)</td></tr>
<tr><td>Weight</td><td colspan="6">500g</td></tr>
</table>

3. Connector pin assignment

3-1 I/O connector

Item	Type	Manufacturer	Ref.
Connector	233-416	WAGO	

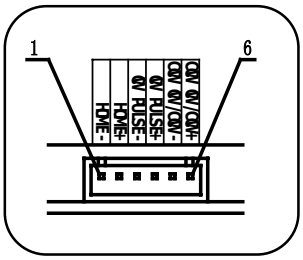


Pin No.	Signal name	Description		Input / Output	Circuit
16	H_ST	Starting of Home search		Input	Circuit diagram 2, P.26
15	S_ST	Starting of Scanning			
14	P_ST	Starting of Position data moving			
13	EMER	Emergency Stop, Remark 1			
12	D0	Data 0	When scanning, data 0 and data 1 specify the moving direction. When position data moving, data 0 to data 3 specify position number.		
11	D1	Data 1			
10	D2	Data 2			
9	D3	Data 3			
8	HOME / P_CLR	Home / Current position clear			
7	FOR	Forward overrun			
6	REV	Reverse overrun			
5	RDY	Ready output		Output	Circuit diagram 3, P.26
4	MOVE	Moving output			
3	ERR	Error output			
2	COM	Input / output common			
1	COM	Input / output common			

Remark 1: Please use with the status of normal close (B connection), when normal operating.
Please connect with COM terminal if it is not used. If this unit is not the status of normal close, “Emergency Stop” is displayed and this unit does not work.

3-2 Connector for driver

Item	Type	Manufacturer	Ref.
Post	S6B-XH-A-1	J.S.T. Mfg Co.,Ltd.	
Housing	XHP-6	- do -	Accessory
Contact	SXH-001P-P0.6	- do -	〃



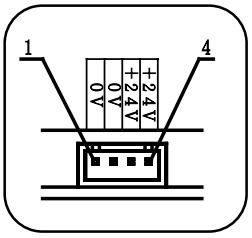
Pin No.	Signal name	Description	Input / Output	Circuit
1	HOME-	Home position, Remark 2.	Input	Circuit diagram 2, P. 26
2	HOME+			
3	CW PULSE-	CW clock output Clock output in case of 1 clock setting.	Output	Circuit diagram 1, P. 26
4	CW PULSE +			
5	CCW CW/CCW-	CCW clock output Direction output in case of 1 clock setting.		
6	CCW CW/CCW+			

Remark 2: HOME- and HOME+ are used only in the combination of our motor cylinder and driver. In case of universal usage, please use HOME of I/O connector.

3-3 Power connector

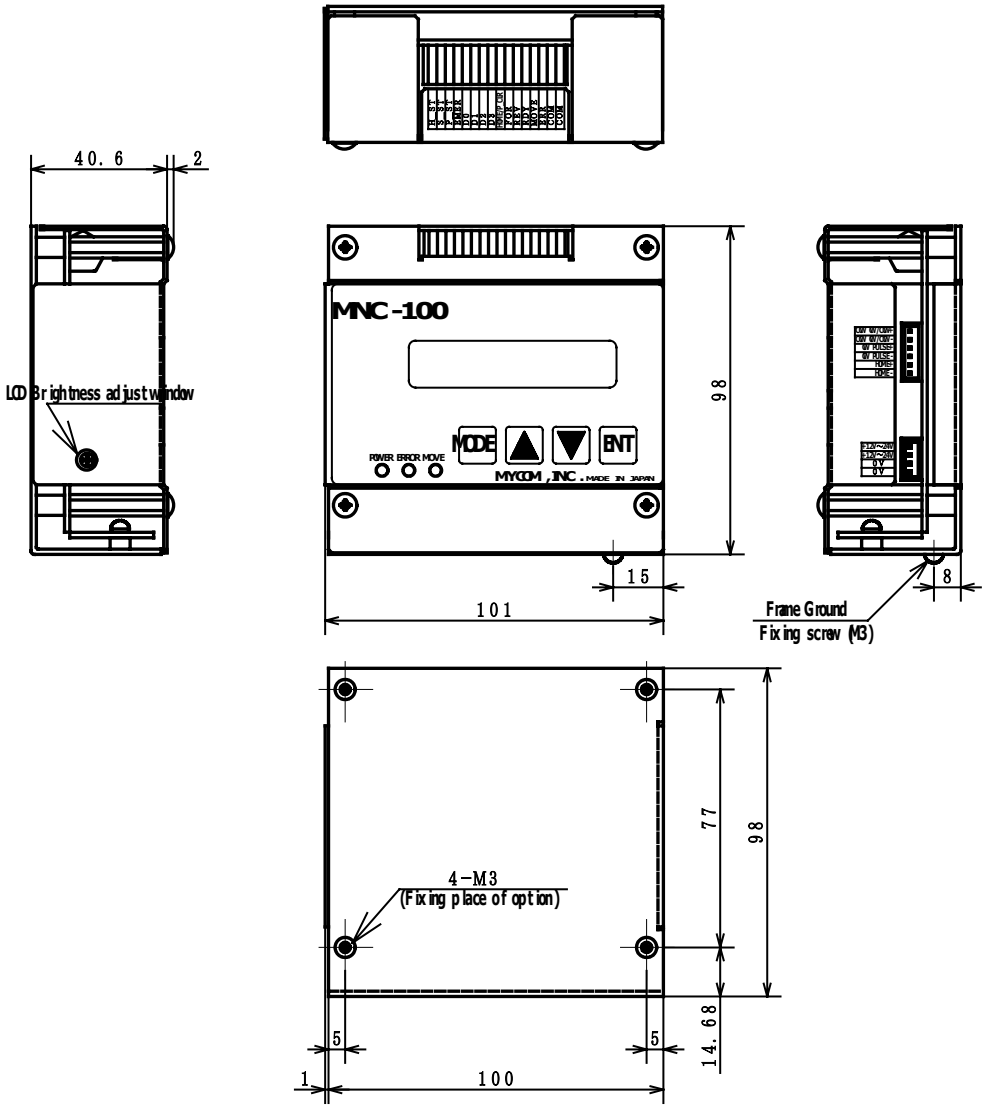
Connector, S4B-XH-A-1, JST

Item	Type	Manufacturer	Ref.
Post	S4B-XH-A-1	J.S.T. Mfg Co.,Ltd.	
Housing	XHP-4	- do -	Accessory
Contact	SXH-001P-P0.6	- do -	-do-



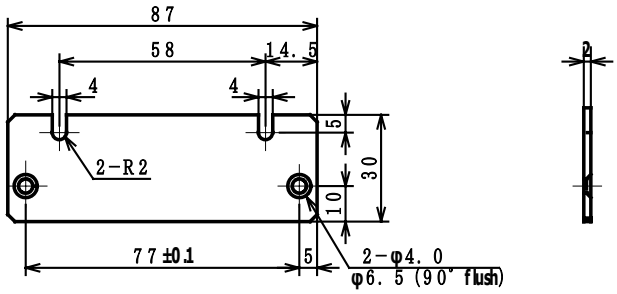
Pin No.	Signal Name	Description
1	0V	Input 0V
2	0V	- do -
3	+24V	Input +24V
4	+24V	- do -

4. Dimensions



4-1 Accessories for fixing

MNC-100-F



5. Function

After power on, MNC-100E displays “REMOTE” and becomes the status of remote operation available.
Pushing “MODE” key enters panel operation mode.
Eight kinds of modes, “HOME SEARCH?” -> ”CLEAR CUR. POS.?” -> ”SCAN DRIVE” -> ”INDEX DRIVE?” -> ”POSITION DRIVE?” -> ”POSITION SAVE?” -> ”POSITION EDIT?” -> ”SPEED SET?” -> ”SYSTEM SET?”, are displayed sequentially by each pushing “MODE” key or ▼ key. Pushing “ENT” key at the required mode can decide the mode. To exit the mode, please push “MODE” key.
Pushing “MODE” key for more than one second returns to “REMOTE” mode.

Outline of each function is explained as follows;

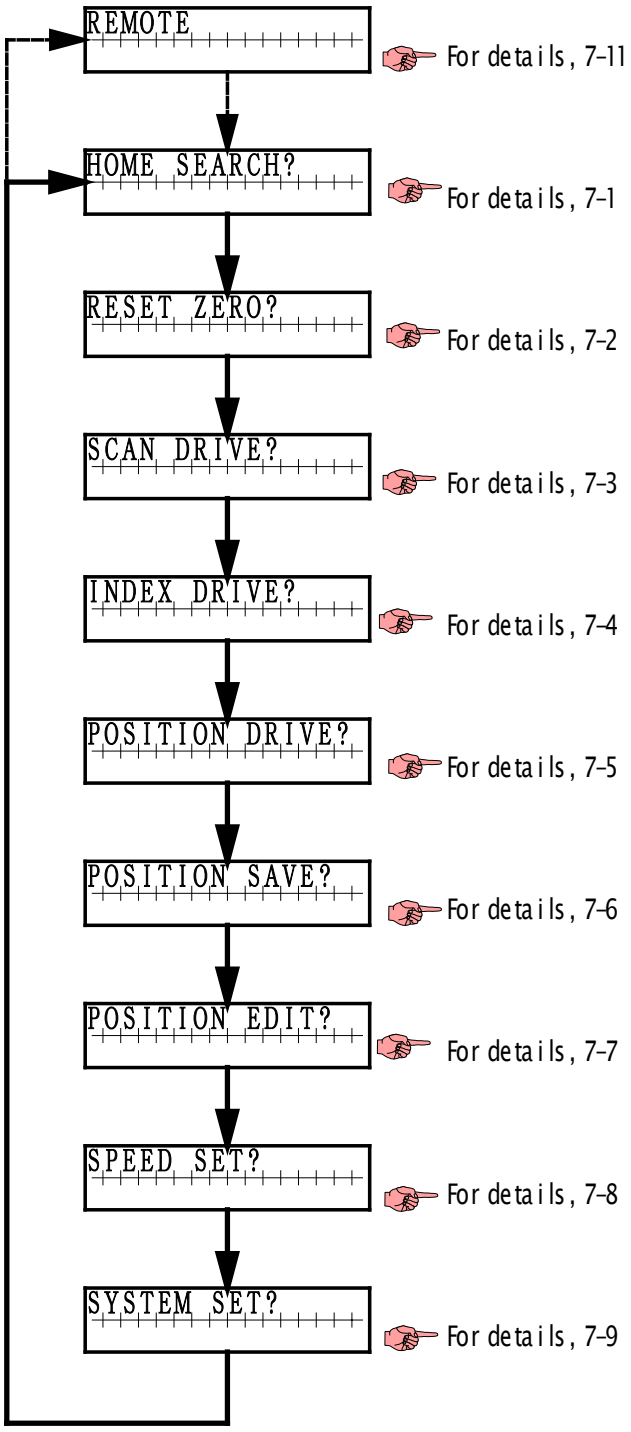
HOME SEARCH	This returns to Home position.
RESET ZERO. POS.	This clears current position to zero.
SCAN DRIVE	This drives for the specified direction with acceleration and maximum speed during pushing ▲ or ▼ key of front panel.
INDEX DRIVE	Each pushing ▲ or ▼ key of front panel drives each specified moving distance.
POSITION DRIVE	This moves to the place of position data number which is stored at “POSITION SAVE and “POSITION EDIT”.
POSITION SAVE	This stores the current position as teaching function. The numbers of storing position is 1 to 15, total 15 points.
POSITION EDIT	In this mode, position data editing, speed number setting, skip function setting and editing are available.
SPEED SET	In this mode, speed settings for three modes (Home search, Scanning and Index) and speed Nos. 1 to 10, total 13 various, are available. Speed setting sets start speed, maximum speed, acceleration deceleration speed.
SYSTEM SET	In this mode, system setting (Home position, Limit sensor logic, Clock type, Forward direction and

Selection of home clear function) and deleting and initializing data are available.

REMOTE In this mode, Home searching, Scanning, Position data moving and Emergency stop are controllable by external input/output signal.

Please push “MODE” key for more than one second when entering into remote operation mode from panel operation mode.

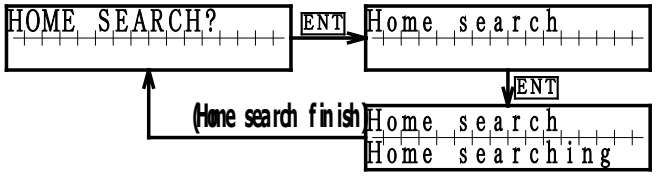
6. Operation mode



7. How to operate

4 keys on front panel operates in each menu and each moving mode. 4 keys in each menu almost assign “ENT” key: “Decision”, “MODE” key: “Cancel”, ▲ or ▼ key: “Select” or “Move”. Depending on items to set, there is different assignment to operate.

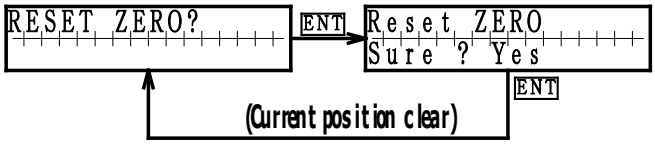
7-1. Home searching



“HOME SEARCH?”	When executing Home searching, Push “ENT” key to enter the mode.
“Home search”	Push “ENT” key to start home searching.
“Home searching”	This is display during home searching

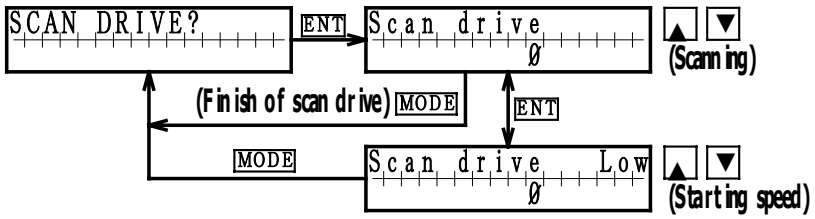
The moving speed of home searching refers the setting of “H”(Home searching) in “SPEED SET”. Refer “Speed setting”(p.16)

7-2. Current position clear



”RESET ZERO?”	When “ENT” Key is pushed, it goes to current position clear mode.
"Reset ZERO"	This clears current position to Zero and set as imaginary home.

7-3. Scanning



"SCAN DRIVE?" Push "ENT" key to enter scanning mode.

"Scan drive" Pushing ▲ or ▼ key starts scanning.
The figures show the pulse numbers of current position.

"Scan drive Low" Pushing ▲ or ▼ key starts scanning with start speed.
"Low" display is switched by each "ENT" key pushing.

The moving speed of scanning refers the setting of "S"(Scanning) of "SPEED SET". Refer "Speed setting"(p.16)
Pushing "ENT" key during stop switches moving with start speed or moving with accel/decel. In case of moving with start speed, "Low" is displayed.

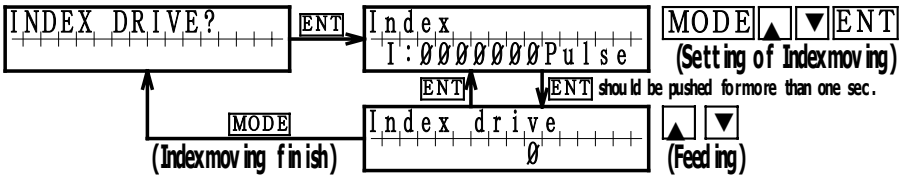
About key control of ▲ and ▼ key

▲ key: plus direction

▼ key: minus direction

If it is pushed for less than 1 set., it is jog movement.

7-4. Index moving



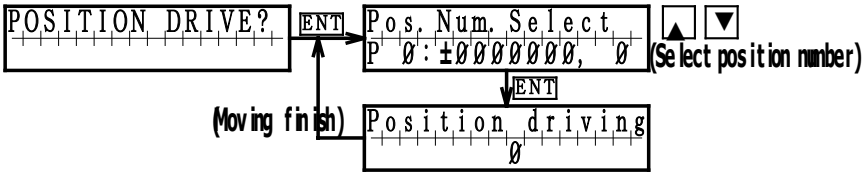
"INDEX DRIVE ?" Push "ENT" key to enter indexing mode.

"Index" The moving distance is set by keys of "MODE",▲, ▼ and "ENT" key.
If "ENT" key is pushed for more than 1 sec., the moving distance is decided.

"Index drive" Pushing ▲ or ▼ key starts index moving
The figures show the current position. Pushing "ENT" key returns to the setting mode of moving distance to change the moving distance.

The moving speed refers the setting by "I"(Index moving) of "SPEED SET". (Ref. Speed setting, P16)
When it enters into index moving mode at first time, or "ENT" key is pushed during stopping status, the moving distance setting window is displayed. (Ref. Value setting key operation, P20)

7-5. Position data moving



"POSITON DRIVE ?"	Push "ENT" key to enter position data moving mode.
"Pos. Num. Select"	▲ and ▼ keys select position number and "ENT" key decides the position. Pushing "ENT" key moves to the selected number.
"Position driving"	The current position is displaying during moving.

The moving speed refers the speed of speed number which was set when data storing. Refer "Position data storing"(p.14) and "Position data editing"(p.15)

When "**Absolute**" is set in "**Coordinate**" of "**System set**", it moves to absolute position from zero. If "Incremental" is set, it is incremental setting and each movement clears current position.

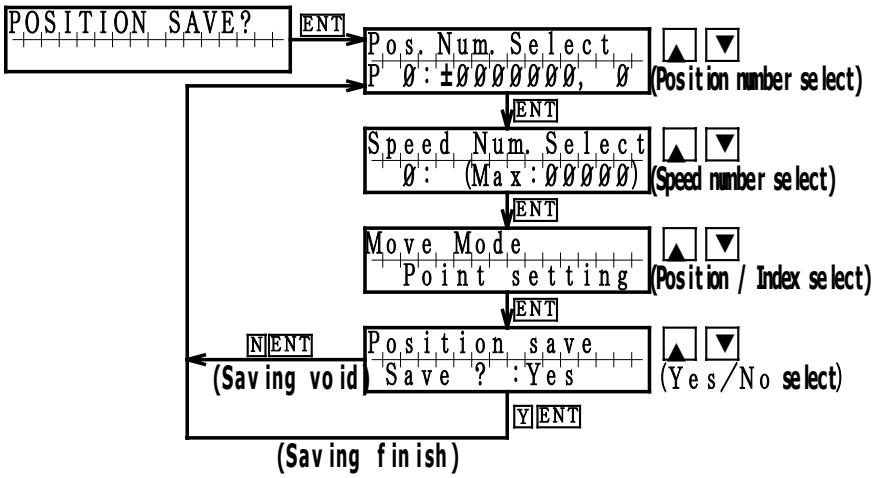
Position number selected display

DISPLAY -> **"P 0: 0000000, 0 "**

Display	Description
P(I) 0	Position data number P stands for position setting and I stands for index setting.
:	No / Yes display of skip. (No : / Yes *)
0000000	Position data (Pulse numbers)
0	Speed setting number

*** Description of display of position number selected**

7-6. Position data storing

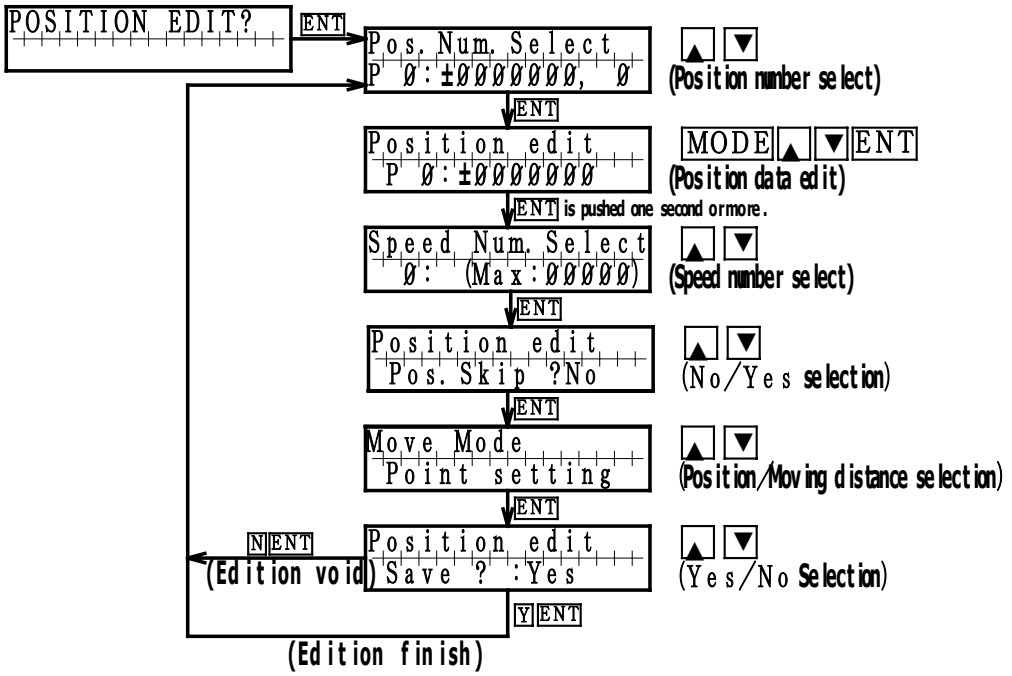


"POSITION SAVE ?"	Push "ENT" key to enter position data storing mode.
"Pos. Num. Select"	Select position number.
"Speed Num. Select"	Select speed number.
"Move Mode"	Select how to specify. When incremental coordinate is selected, this is not displayed. Refer "System setting"(p. 17).
"Save ?"	Select YES or NO.

When "Yes " is decided, the current position and selected speed number are stored at selected speed number.
If "Incremental" is set at "Coordinate select" in "System setting", the current position is cleared to Zero after storing and finish. Refer "System setting"(p. 17)

*Please refer P. 13, "Description of display of position number selected" display for the detail of "Position number select".

7-7. Position data editing



"POSITION EDIT ?"	Push "ENT" key to enter position data editing mode.
"Pos. Num. Select"	Select position number to edit.
"Position edit"	Edit the numbers of position.
"Speed Num. Select"	Select speed number.
"Pos. Skip ?"	Select No or Yes to skip or not to skip.
"Move Mode"	Select how to select.
"Save ?"	Decide Yes or No.

*Refer P. 13, "Description of display of position number selected" about display for the detail of "POSITION EDIT" display.

*Refer P. 20, Value setting key operation for the detail of "Position edit", key control during position data editing.

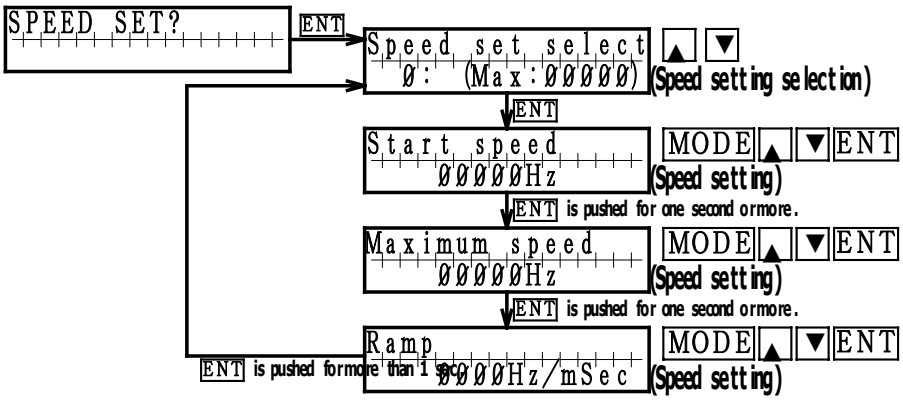
***Skip function**

Skip function relates remote control, Position date sequential execution. Refer P. 21, Remote

The "No" or "Yes" setting of skip function is confirmable by symbol of ":" of "P 0: ± 0000000,0" display.

Invalid skip function(No) = ":". Valid skip function(Yes)= "*"

7-8. Speed setting



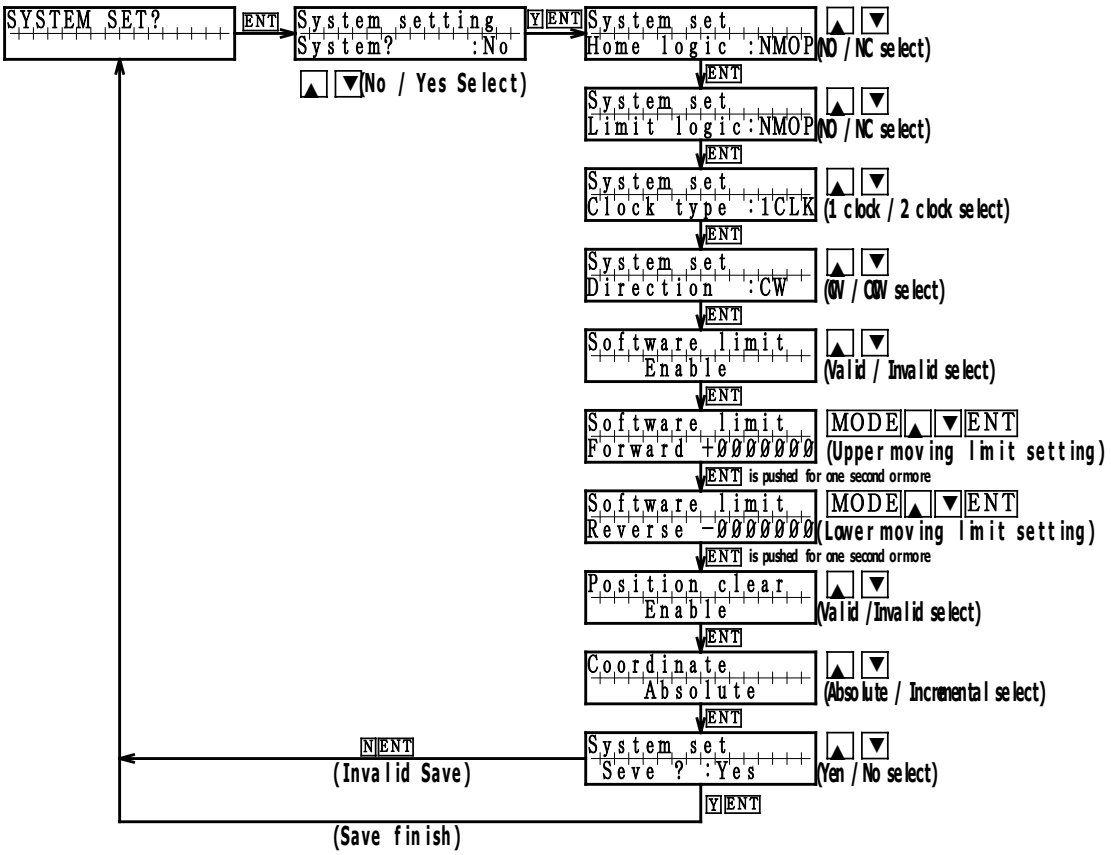
"SPEED SET ?"	Push "ENT" key to enter speed setting mode.
"Speed set select"	Select speed number and "ENT" key decides the speed setting.
"Start speed"	Set the start speed.
"Maximum speed"	Set the maximum speed.
"Ramp"	Set slow-down and slow-up speed.

Speed setting and speed number (1 to 10) of each mode of H(Home search), S(Scanning) and I(Indexing) can be set by same procedure of the above.
The selected contents of speed setting are changed in order of start speed->maximum speed->slow-up slow-down speed.

Refer P. 20, Value setting key operation for detail of value setting key control of "Start speed", "Maximum speed" and "Ramp".

7-9. System setting

7-9.-1 System setting (System setting)

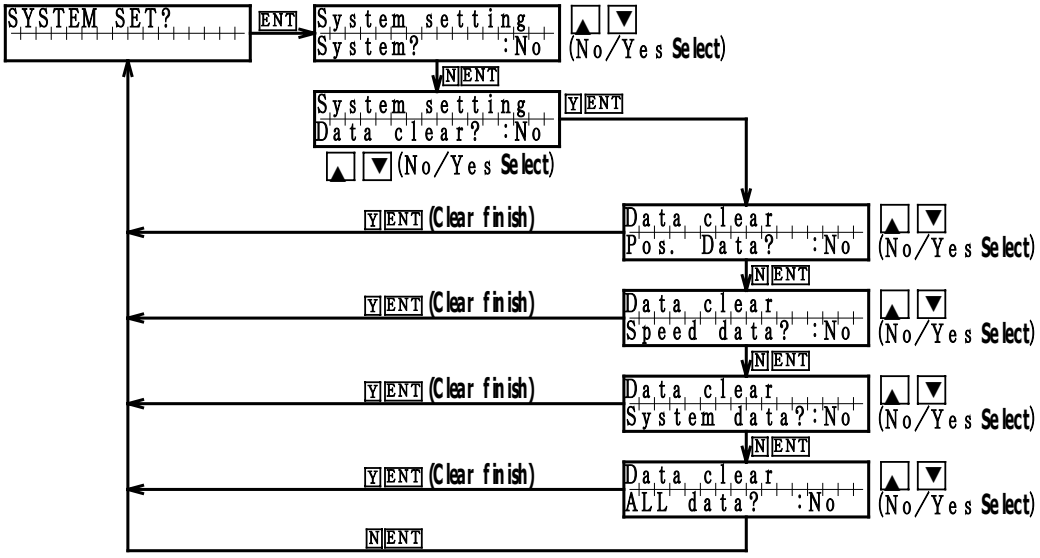


"SYSTEM SET ?"	Push "ENT" key to enter system setting mode.
"System ?"	Select Yes for system setting.
"Home logic"	Select NMOP or NMCL to set logic setting of home sensor.
"Limit logic"	Select NMOP or NMCL to set logic setting of limit sensor.
"Clock type"	Select 1CLK or 2CLK to set clock type.
"Direction"	Select CW or CCW to set forward direction.
"Software Limit"	This selects valid or invalid of moving limit setting. When "Invalid" is selected, the following "Forward" and "Reverse" setting are not displayed.
"Forward"	Set the numbers of pulses of the upper maximum moving limit for forward direction.
"Reverse"	Set the numbers of pulses of the lower maximum moving limit for reverse direction.

"Position Clear"	Select valid or invalid setting of position clear control at stopping.
"Coordinate"	Select "Absolute" or "Incremental".
"Save ?"	Select Yes or No to store. When No is selected at "Save ?", the changed data becomes invalid and previous setting remains.

Refer P. 20, Value setting key operation for detail of value setting key control of "Forward" and "Reverse".

7-9-2. System (Data clear)



"SYSTEM SET ?"	Push "ENT" key to enter data clear mode.
"SYSTEM ?"	Select No for data clear.
"Data clear ?"	Select Yes for data clear.
"Pos. Data ?"	Clear the stored position data.
"Speed data ?"	Clear the stored speed data.
"System data ?"	Clear to the initial system setting.
"All data ?"	clear above all items.

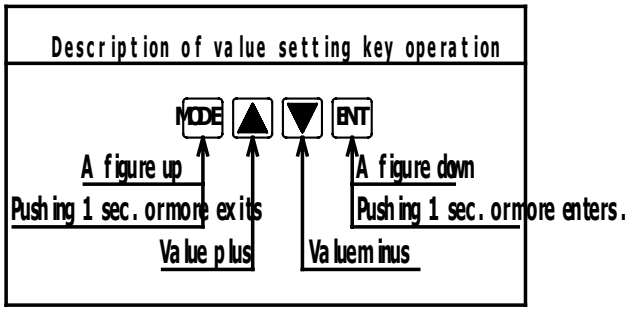
If Yes is selected at any stage, the display returns to "System ?" after the contents of its stage is cleared.

If speed setting data and system setting are cleared, the initial setting is retrieved.

7-10 Value setting key operation

Key operation for value edition, for example position data editing and speed setting, is as follows.

"ENT" key and "MODE" key move cursor to left and right to change the place. ▲ and ▼ keys increase or decrease the value on the place targeted by cursor.
The combination of 4 keys on panel edits the value. Pushing "ENT" key for more than 1 second decides the edited value and pushing "MODE" key for more than one second cancels.
Continuing to push ▲ and ▼ keys repeats automatically.



*Description of value setting key operation

7-11. Remote

External start signals (P_ST, S_ST, H_ST, P_CLR) can control position data moving, scanning, home searching and current position clearing.

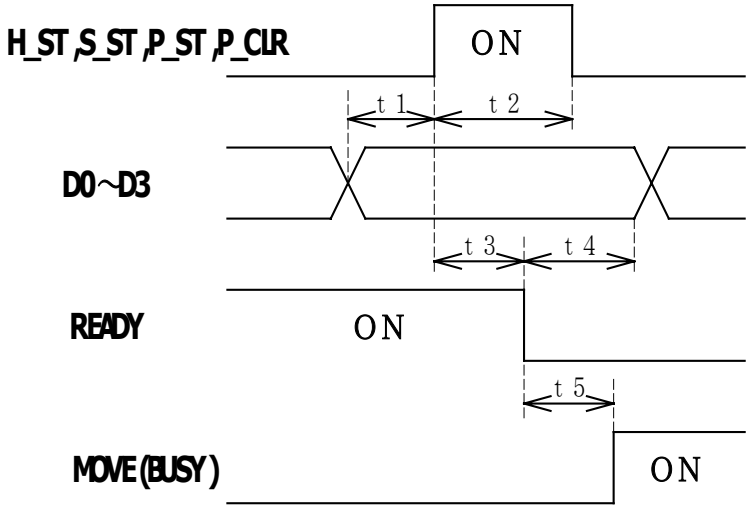
Setting signals of D0 to D3 specify the position data and the direction of scanning.

The rising timing of HOME/P_CLR signal can clear current position to zero only when both the status of this controller is stop and the position clear function of system setting is valid. This function is useful for such moving to fixed direction with fixed distance by fixed distance continuously. (Ref. System setting, P17).

When "Coordinate" in "System set" sets "Absolute", this unit moves as absolute position specification. At this time, the moving distance is accumulated by P_ST, and S_ST signal input. Any of "Home search", "Moving to Zero position" and "Incremental" let current position zero. (Ref. System setting, P17).

When "Coordinate" in "System set" sets "Incremental", this unit moves as incremental position specification. The moving distance by signal input of P_ST and S_ST does not accumulate and is cleared to zero just before each operation starts.(Ref. System setting, P.17)

Timing chart of external signal



Unit (ms.)	
t 1	0 ormore
t 2	5 ormore
t 3	1 or less
t 4	0 ormore
t 5	1 or less

P_ST, S_ST, H_ST, and P_CLR signals are valid when READY signal outputs.

During movement, READY signal goes OFF and MOVE signal outputs.

MOVE signal output does not go ON while P_CLR is operating.

7-11-1. D0, D1, D2 and D3 setting signal

These are required setting signals for specifying position data number and direction of scanning.

(0=OFF, 1=ON)

Number setting	D3	D2	D1	D0
Sequential start	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

Table 1. Number setting

	D3	D2	D1	D0
FOR	---	0	0	1
REV	---	0	1	0
FOR(S)	---	1	0	1
REV(S)	---	1	1	0

Table 2. Scanning direction setting

7-11-2. P_ST

This is the external start signal for position data moving.

P_ST signal should be inputted after setting signals of D0 to D3.

There are two various starting methods for position data moving. One is sequential start and another is position setting start.

Sequential start: Specify D0 to D3. (Ref. Table 1.)

This starts sequentially the position data which is specified at Skip Number by position data editing. (Ref. "Position data editing", P. 15)

Ex.)

	Position data number
Skip, No	1, 2, 3, 7, 8, 9, 15
Skip, Yes	4, 5, 6, 10, 11, 12, 13, 14

In case of above setting, sequentially started position data numbers are as follows:

1->2->3->7->8->9->15->1->…

Position setting start Position data numbers (1 to 15) are specified by D0 to D3

(Ref. table 1)

This can move to the specified position. In this case, this controller starts without relation to No or Yes of skip setting which is specified by position data editing.

7-11-3. S_ST

This is an external start signal for scanning.

This moves to the direction specified by D0 and D1 (Refer Table 2) from the place where S_ST signal goes ON. Then controller stops with deceleration at the place where S_ST signal goes OFF.

If D2 sets ON, it moves with staring speed without slowdown / slowup.

7-11-4. H_ST

This is an external signal for home search.

Home search is started by the rising edge of H_ST signal without relation to D0 to D3 settings.

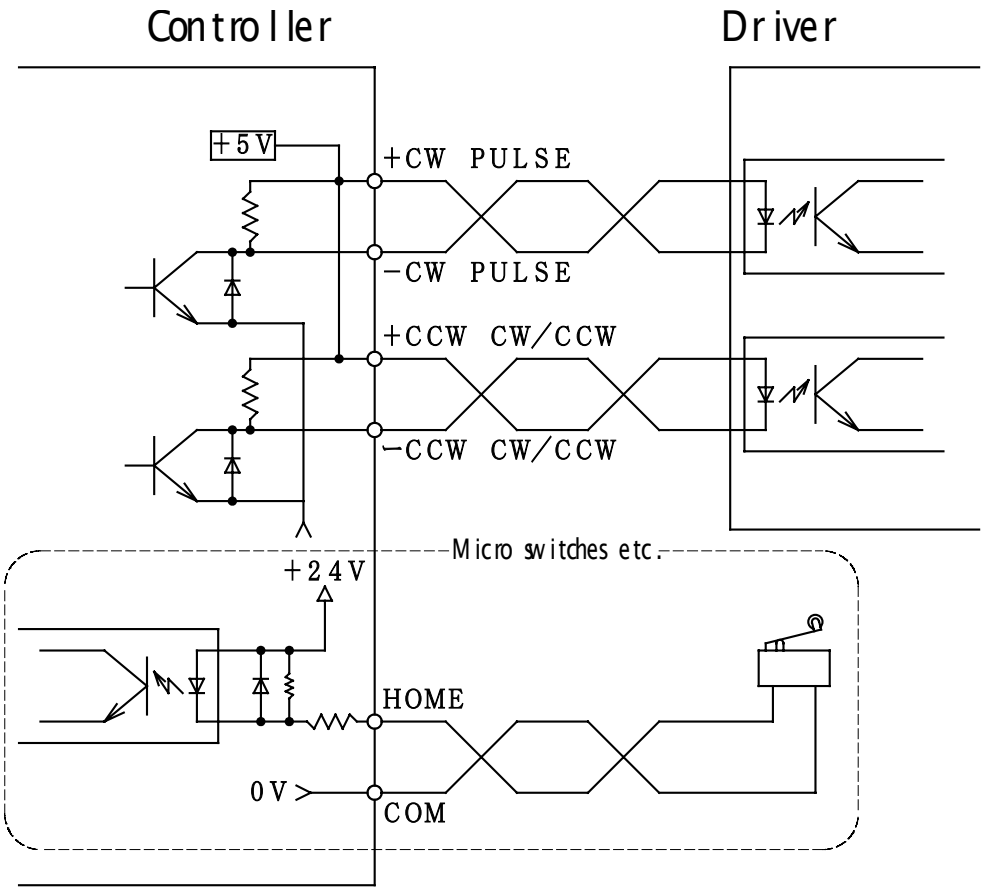
7-11-5 P_CLR

This is a current position clear signal.

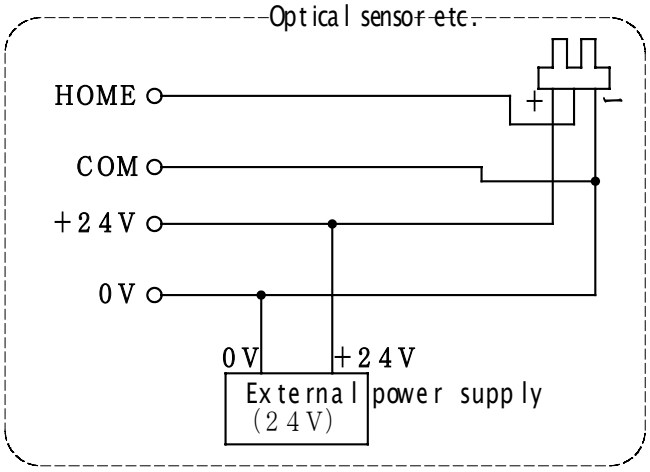
The rising edge of P_CLR signal clears the current position to zero without relation to D0 to D3 setting.

This signal is valid only when both this controller is stopping status and the position clear function is set valid by system setting. In case that the position clear function is set invalid by system setting, there is no control. (Ref. System setting, P.17)

8. Wiring diagram

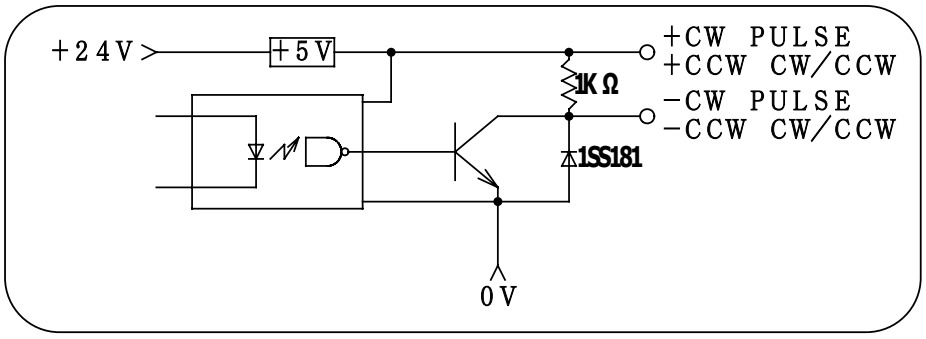


* Use twisted pair shield wire for the connection cable.

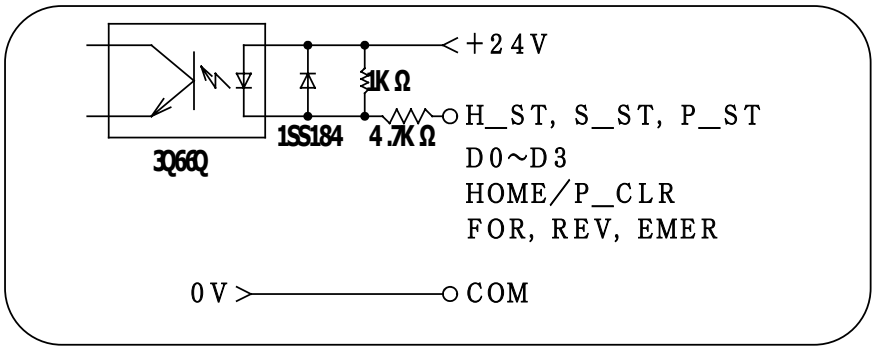


Note: Connect with flame ground by all means. Refer 4. External dimension of P. 6

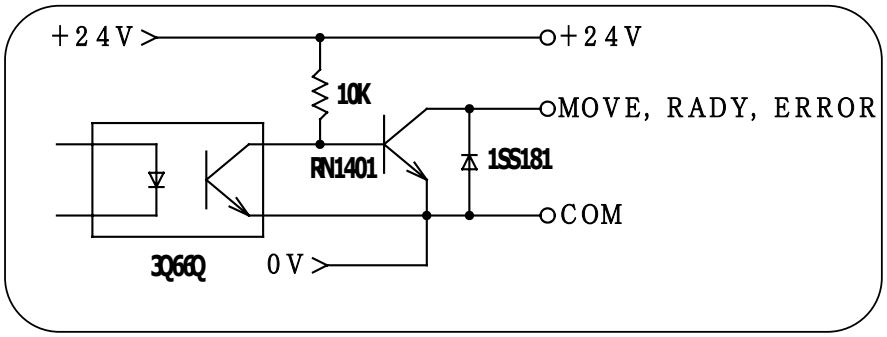
9. Input output signal circuit diagram



Circuit diagram 1



Circuit diagram 2



Circuit diagram 3

10. Home search pattern

1. Home search from normal position

2. Home search from Near home ON position

3. Home search from the position between Near home and Overrun

4. Home search from Overrun position

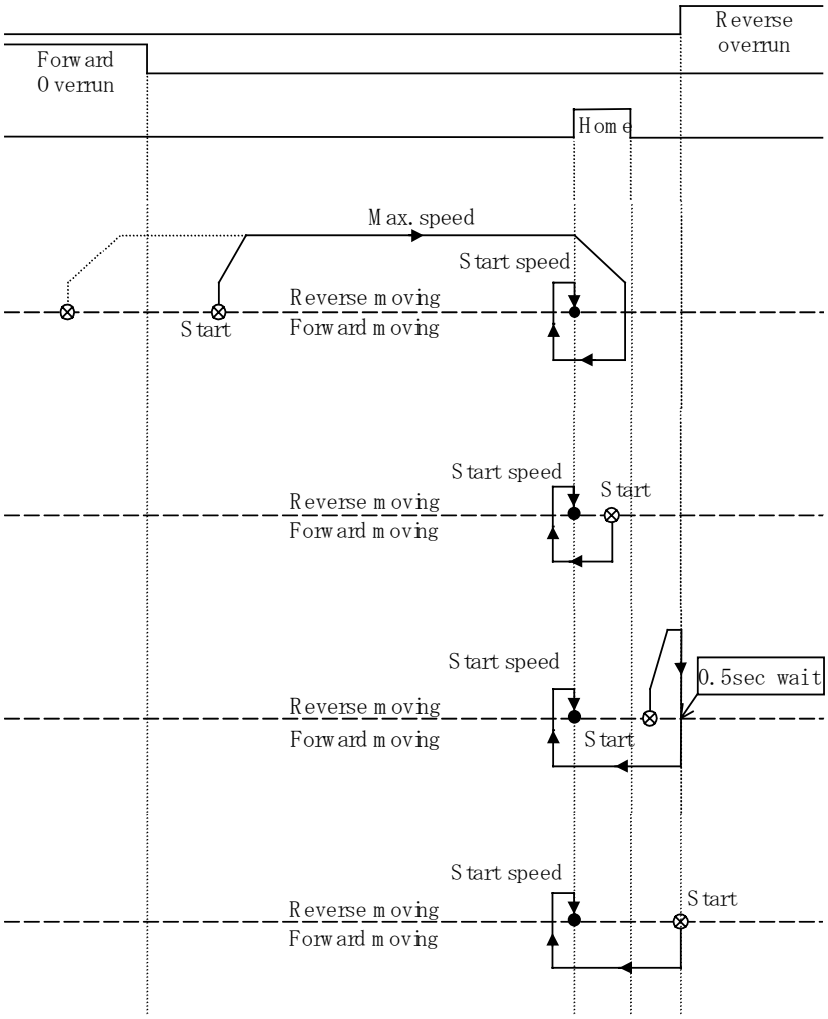
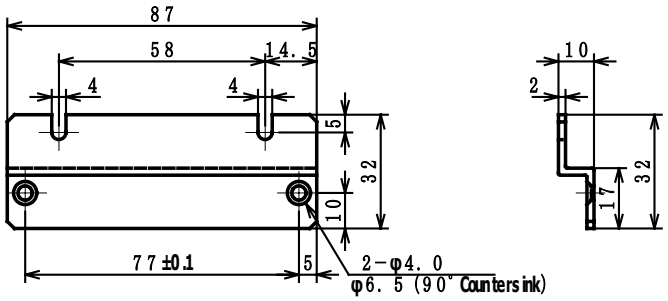


Fig. of home search pattern

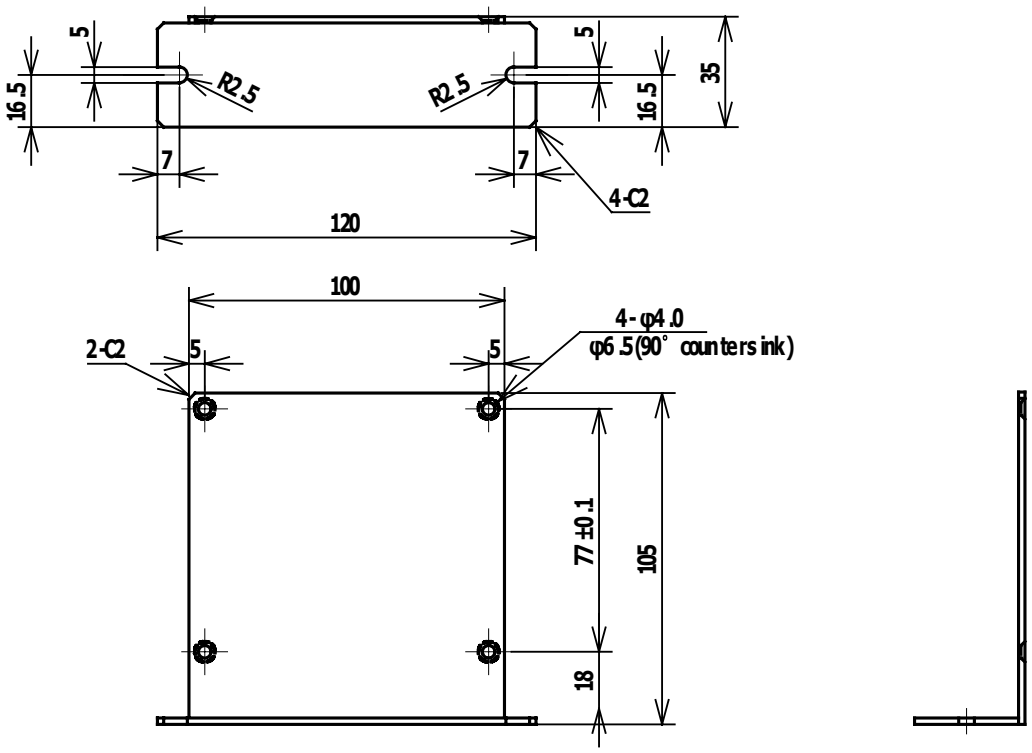
11. Error display list

LCD display	Reason and Solution
"Emergency stop"	● The status of emergency stop signal is ON. Please release the emergency stop signal. After release, reset is activated and recovered.
"ForwardLimit Err" "ReverseLimit Err"	● Overrun limit is unusual The moving intends to exceed the position of limit sensor during moving. Please push “MODE” key or please power off the controller to release the error and move it reverse direction against limit. * ”Limit logic” setting of “System set” is wrong. Please correct the logic setting. * The wiring of overrun sensor is troubled. Please confirm the wiring and correct.
"MNC-100Fatal Err"	● This is unexpected error. Please contact us.

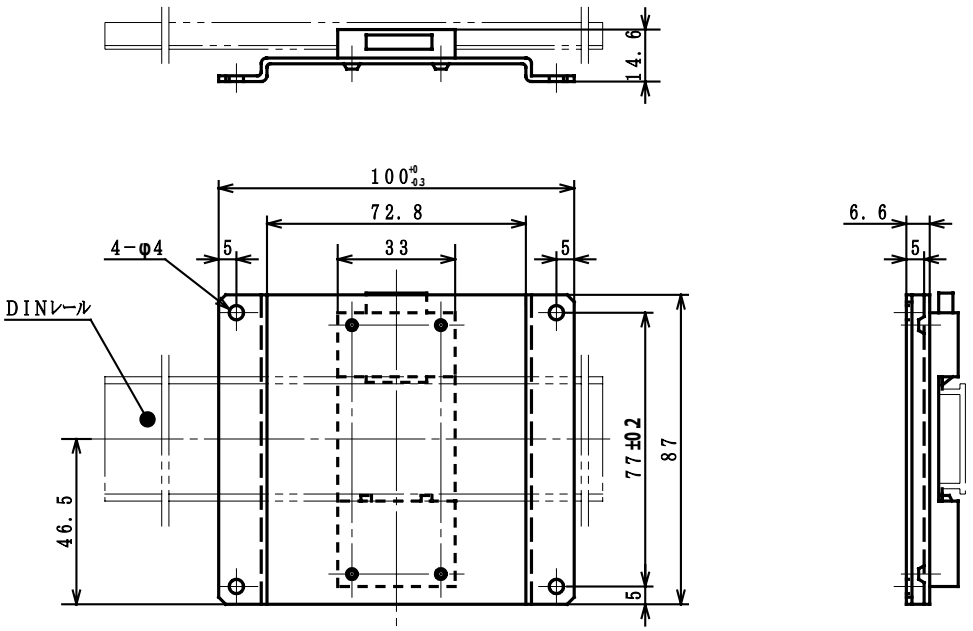
12. Optional metal plate dimension



Z shape metal plate (MNC-100-Z)



L shape metal plate (MNC-100-L)

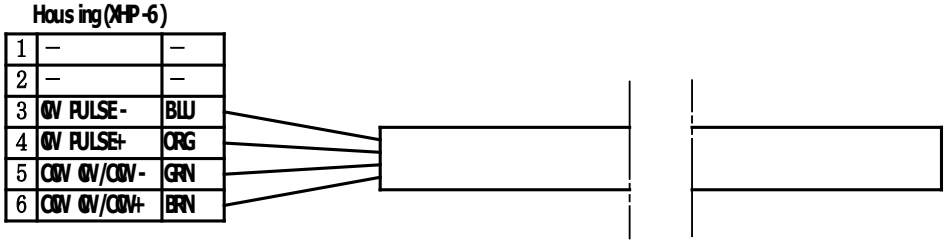


(Metal bracket plate for DIN rail), Figure of setting (MNC-100-D)

Note) DIN rail is not included.

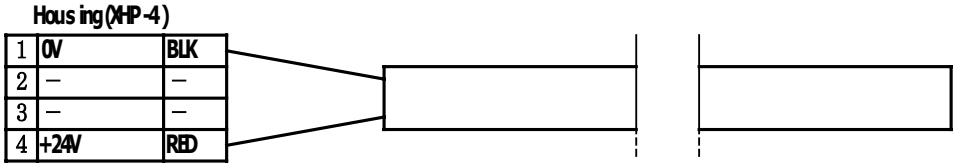
13. Optional cable

Cable for driver



	Model number
Cable for driver 1.5m	MNC-100-CD-1.5
Cable for driver 3.0m	MNC-100-CD-3.0

Cable for DC24V



	Model number
Cable for DC24V 1.5m	MNC-100-C24-1.5
Cable for DC24V 3.0m	MNC-100-C24-3.0

Please understand that we may make modifications to our products without notification in order to improve the capabilities and external appearance of our products.

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